

DII.3003P2.Sol251.Kernel.VDD-1

Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Version 3.0.0.3P2

**Version Description Document
for the Kernel Patch 2 (Solaris 2.5.1)**

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NOTE: Courier font is used to indicate entries to be typed at the keyboard, operating system commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

1. System Overview

The Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) enhances the DII COE 3.0.0.3 Kernel by updating system administration executables, updating the runtime tools, and adding Common Desktop Environment (CDE) patches. The COE kernel is the minimum set of software required on every workstation regardless of how the workstation will be used. These components include the operating system and windowing services, as well as external environment interfaces.

System Administration Function

The System Administration function provides the capability to print ASCII text, select and configure printers, perform local queue management, manage print jobs, and close windows; reboot or shut down the system, mount file systems, and format hard drives; load or install segments; and change machine identification (ID), set system time, configure a workstation as either a client or a server, set routing configuration, configure mail on a workstation, and configure Network Information Service (NIS). The system administrator's account group sets the system administrator's environment to execute the functions listed above.

Runtime Tools

Runtime tools are used to support the segment installation process. The following runtime tools have been updated for the DII COE 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) delivery. Updated and enhanced capabilities associated with individual tools are listed in Subsection 3.2, *Software Changes*.

- C **COEAskUser Version 1.0.0.7**—Displays a message to the user. The COEAskUser tool can be called from anywhere.
- C **COEFindSeg Version 1.0.0.7**—Returns information about a requested segment.
- C **COEInstaller Version 1.0.0.10**—Displays a list of segments that may be installed from tape, disk, or other electronic media. The COEInstaller tool can be run from the command line, as well as from the System Administration pull-down menu.
- C **COEInstError Version 1.0.0.7**—Displays an error to the user. The COEInstError tool can be run from the command line, but it is most often called from within a `PreInstall`, `PostInstall`, or `DEINSTALL` script.
- C **COEMsg Version 1.0.0.7**—Displays a message to the user from within a `PreInstall`, `PostInstall`, or `DEINSTALL` script.

- C **COEPrompt Version 1.0.0.7**—Displays a message to the user and expects the user to enter a response from within a `PreInstall`, `PostInstall`, or `DEINSTALL` script.
- C **COEPromptPasswd Version 1.0.0.7**—Displays a message to the user and waits for the user to enter a password. The `COEPromptPasswd` tool can be run from the command line, but it is most often called from within a `PreInstall` or `PostInstall` script.
- C **COEUpdateHome Version 1.0.0.5**—Updates the home environment within a script file to point to where a segment actually was installed.

Some of the tools can be run from the command line, and some can be run from other code using published Application Programmer Interfaces (APIs). The `COEInstaller` tool can also be run from the System Administration pull-down menu. Reference the *DII COE Programming Guide*, the *DII COE API Reference Guide*, and the *DII COE Integration and Runtime Specification* for more information about these tools and their functionality.

CDE Patches

Nine patches are added to the CDE when the DII COE Kernel Patch 2 (Solaris 2.5.1) is installed. Reference Section 7, *DII COE Kernel Patch 2 Solaris 2.5.1 Patch List*, to review the list of patches included on the Patch 2 tape.

2. Referenced Documents

The following documents are referenced in this Version Description Document (VDD):

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3 Programming Guide (HP-UX and Solaris) FINAL*, DII.3003.Final.UNIX.PG-1, Inter-National Research Institute (INRI), October 29, 1996
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3 Application Programmer Interface (API) Reference Guide (HP-UX and Solaris) FINAL*, DII.3003.Final.UNIX.RG-1, Inter-National Research Institute (INRI), October 29, 1996
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification Version 2.0*, DII COE I&RTS:Rev 2.0, Inter-National Research Institute (INRI), October 23, 1995
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3 Kernel Installation Guide (Solaris 2.5.1)*, DII.3003.Sol251.IG-2, Inter-National Research Institute (INRI), April 7, 1997
- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3PI Version Description Document for the Kernel Patch 1 (Solaris 2.5.1)*, Inter-National Research Institute (INRI), March 4, 1997

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3 System Administrator's Guide (HP-UX and Solaris) FINAL*, DII.3003.Final.UNIX.AG-1, Inter-National Research Institute (INRI), October 29, 1996.

3. Version Description

3.1 Inventory of Materials Released

- C Magnetic media: Two 8mm tapes consisting of a relative tar of the DII COE Kernel Patch 2, Version 3.0.0.3P2 (Solaris 2.5.1).
- C Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version 3.0.0.3P2 Version Description Document for the Kernel Patch 2 (Solaris 2.5.1)*, Document Control No. DII.3003P2.Sol251.Kernel.VDD-1, April 7, 1997.
- C Hard-copy Documentation: Two hard copies of the aforementioned VDD.

3.2 Software Changes

3.2.1 DII COE Kernel Patch 2 Software Changes

Reference the following table for a list of software changes for the DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1). The software changes are listed in order of INRI Number.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
Total Software Changes: [32]	
INRI Number:	RTO00000557
Agency Number:	D60250
Short Description: The Set DNS option will accept an invalid IP address for a DNS server host.	
Long Description: The Set DNS option will accept an invalid IP address for the server host. The IP address should at least be confirmed as a valid machine before exiting the window. If the machine is invalid, a warning window should appear. If DNS is not set correctly on an HP machine, the machine cannot find its own address during reboot. Therefore, from a user perspective, the machine must be reloaded.	
INRI Number:	RTO00001064
Agency Number:	D60296
Short Description: The Installer does not go from /h to /home1 automatically.	
Long Description: The Installer does not go from /h to /home1 automatically.	
INRI Number:	RTO00001119
Agency Number:	None.
Short Description: An error occurs when installing a single aggregate from a tape.	
Long Description: If a tape contains multiple aggregates and only one is selected, all children on the tape are selected instead of just the children of the selected parent.	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001203
Agency Number:	D60412
Short Description: The Change Machine ID menu option does not work properly.	
Long Description: The Change Machine ID menu option under the Network menu does not work properly. When the Change Machine ID window appears, it does not allow the name of the machine to be edited; instead, the user must select a machine from the list. Even if the user selects a machine from the list, the machine name does not change in all of the required locations because the machine does not come back up after the machine is rebooted.	
INRI Number:	RTO00001287
Agency Number:	D60459
Short Description: Installation of Oracle segments fails.	
Long Description: During the installation of Oracle memory Sys. (size .06 mg), the COEInstaller froze. The only way to receive a response was to exit the entire session and then log in again.	
INRI Number:	RTO00001295
Agency Number:	None.
Short Description: The Change Machine ID option should not allow selection of the local host because it locks up the system.	
Long Description: The Change Machine ID option should not allow the user to select the local host (the machine being used). Selection of the local host locks up the system and prevents login to any accounts after reboot.	
INRI Number:	RTO00001296
Agency Number:	None.
Short Description: The Edit Local Hosts option should not allow the user to remove or modify information about the machine being used.	
Long Description: The Edit Local Hosts option should not allow the user to remove the machine being used from the list of machines that can be accessed or modify information about the machine being used.	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001297
Agency Number:	None.
Short Description: If NIS setup is closed before setup is complete while C2 is on, no login is allowed.	
Long Description: The user logged in as sysadmin and initialized NIS. In the first dialog, leaving the entry blank, the user selected OK. The next window asked for a Master machine. The user clicked on the upper left menu box and closed the window. A new window appeared stating 'is readable'. The user clicked on OK. If the user reboots the machine, the user will not be able to log in because of an 'invalid home directory'. The user cannot log in as root, sysadmin, or secman.	
INRI Number:	RTO00001303
Agency Number:	None.
Short Description: The Segment Installation Server deinstalls segments that have not been chosen for deinstallation.	
Long Description: The Segment Installation Server deinstalls segments that have not been chosen for deinstallation. When the user selects a segment for deinstallation and confirms the deinstallation (which lists the chosen segment as the one selected for deinstallation), deinstallation proceeds but another segment is deinstalled instead. Upon completion, the Installation Log shows that a different segment (not the one selected) deinstalled; in the Installer window, the chosen segment is still listed but the one shown in the Installation Log is no longer present. For example, install several segments on the Segment installation Server, including JMAPS_NEW, BRAVO, BRAVO.P1, ECHO, and INDIA0. Then deinstall BRAVO.P1; Normalization (part of JMAPS_NEW aggregate) deinstalls instead. On the second attempt at deinstalling BRAVO.P1, Journaling (another part of the JMAPS_NEW aggregate) deinstalls. Then deinstall ECHO; BRAVO.P1 deinstalls instead. See related STR RTO00001000, which was closed in the DII COE Version 3.0.0.3 build.	
INRI Number:	RTO00001319
Agency Number:	None.
Short Description: The AdmMgr and COEPrintServ programs fail to launch at boot time.	
Long Description: The AdmMgr and COEPrintServ programs fail to launch at boot time. When the COEStartProcMgr launches, it does not know where the "sleep" program is located. Without the sleep program running at the correct time, the AdmMgr and COEPrintServ programs will not launch correctly. The solution to the problem is to use /bin/sleep in the COEStartProcMgr scripts instead of sleep. (UB must be reloaded to repeat.)	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001352
Agency Number:	D70095
Short Description:	The /usr/bin/ksh file should not have the setuid bit set.
Long Description:	The /usr/bin/ksh file has the setuid bit set. Thus, any user (e.g., root, nobody) running ksh or a ksh script does so with the effective uid of bin. This is a security hole and will break many segments.
INRI Number:	RTO00001385
Agency Number:	D70119
Short Description:	The Assign Passwords icon does not launch.
Long Description:	When the user clicks on the Assign Passwords icon in the SSO_Default profile, the front panel light flashes for a few moments, but the application does not launch because the group on the executable is incorrect.
INRI Number:	RTO00001388
Agency Number:	D60427
Short Description:	COTS aggregate children are not installing properly.
Long Description:	COTS aggregate child segments are installing in the / directory. The parent segment is a software type and the children are COTS segments. The COEInstaller installs the child by creating a /COTS directory and then links that directory back to /h/COTS. This is incorrect and will cause the / partition to fill up rather fast. This problem has a precedence of 2.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes**INRI Number:** RTO00001415**Agency Number:** None.**Short Description:**

Problem using the APPEND keyword for top-level menu items that do not exist.

Long Description:

In 2.2.0.5 UB, the APPEND command can be used for a top-level menu item (one appending on the menu bar itself) and the menu item would be created if it did not yet exist. Subsequent APPENDs to that menu item (from various segments) would then simply append to the one created. In the DII build, if the APPEND keyword is used for a top-level menu item and it does not exist, it will be created; however, any subsequent APPENDs will cause the new menu item not to be displayed. If even one of the APPENDs is changed to a PDMENU, everything works fine again; however, more than one PDMENU will result in more than one top-level menu item being displayed. The problem is that we have APPENDs to the same top-level menu item (primarily Database and Messages) spread across many segments, not all of which will be loaded at any given workstation. These top-level menu items do not exist prior to one of our segments being loaded.

There is a problem involving the CASCADE keyword when applied to lower-level menus (pull-down menus off the main menu bar). A CASCADE is added to the JMCIS->Database menu item in SysAdmin but it does not show up. If this CASCADE is combined with the CASCADE that is currently in the SAMenus.main menu file, things work fine, but as a separate CASCADE it does not.

INRI Number: RTO00001423**Agency Number:** None.**Short Description:**

The COEInstaller does not remove patch segments in the proper order.

Long Description:

The COEInstaller does not remove patch segments in the proper order. According to the I&RTS, "The COEInstaller software assumes that higher numbered patches must be removed before a lower numbered patch can be removed." Patches, however, can be removed out of sequence order. This problem is repeatable. The Installer should not allow older patches to be deinstalled before newer patches (i.e., P1 should not be able to be deinstalled if P2 exists).

INRI Number: RTO00001448**Agency Number:** None.**Short Description:**

The network installation checks for an exact version match from the Requires file and fails if it cannot find the file.

Long Description:

The network installation checks for an exact version match from the Requires file and fails if it cannot find the file. The Installer should not fail if a later version numbers exists.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001450
Agency Number:	None.
Short Description:	Multiple aggregates are not installed correctly.
Long Description:	Multiple aggregates are not installed correctly. The Installer installs one aggregate correctly, but the other aggregates fail installation.
INRI Number:	RTO00001465
Agency Number:	D60442
Short Description:	COTS version numbers are incorrect in the Installer window.
Long Description:	Version numbers for certain COTS segments are incorrect. For instance, UNIX has a version number of Solaris 2.4 on the Solaris 2.5.1 system, and Motif shows a version of 1.2.2 when the version number should be 1.2.4. All version numbers should be checked for accuracy.
INRI Number:	RTO00001466
Agency Number:	D60449
Short Description:	Installation of the RemoteInstaller segment causes the Installer to terminate abruptly.
Long Description:	Installation of the RemoteInstaller segment causes the Installer to terminate abruptly.
INRI Number:	RTO00001467
Agency Number:	None.
Short Description:	DII should allow a user session to be run manually in diagnostic session mode.
Long Description:	DII should allow a user session to be run manually in a diagnostic mode. In GCCS 2.2, a session can be launched by sourcing the "~/.xsession" file and watching for diagnostic messages in the terminal emulator window. Note that this is a CDE issue that is not under INRI control. INRI is investigating implementation of this software change proposal.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001469
Agency Number:	None.
Short Description: COEExecMgr close problem.	
Long Description: The COEExecMgr close problem was fixed in GCCS 2.2. This critical instability fix should be ported to the DII COE. Without it, ELVIS will not operate on an HP in GCCS 2.2. Running COECloseSession from a COE Logout process can kill the COEProcessMgr.	
INRI Number:	RTO00001471
Agency Number:	None.
Short Description: The Installer has problems with large disks and has diagnostic problems.	
Long Description: SAInstaller was showing invalid data for the size of large (greater than 8 MB) hard drives. Also, the SAInstaller terminal emulator functionality (used in GCCS 2.2 to view the "-debug" output from the SAInstaller) was broken, which brings up the issue that GCCS users constantly need to view diagnostic outputs from the Installer. This capability must exist in DII COE Version 3.0.	
INRI Number:	RTO00001472
Agency Number:	None.
Short Description: Installer abnormal exit problem.	
Long Description: In GCCS, some segments launch terminal emulator windows from their PostInstall or DEINSTALL. Under certain circumstances, the close of the terminal emulator window causes the PostInstall or DEINSTALL to exit with a non-zero return value, which SAInstaller interprets as a sign that installation/deinstallation had failed, and it aborted the installation/deinstallation. A workaround is to disable the abort feature, although the better long-term solution is to launch a warning window that allows the user to verify that he or she really does want to abort the installation/deinstallation.	
INRI Number:	RTO00001474
Agency Number:	None.
Short Description: Installer release notes print capability.	
Long Description: By DISA request, the capability to print release notes from within the SAInstaller was added in GCCS 2.2. This capability should be included in DII COE 3.0.	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001476
Agency Number:	None.
Short Description: UNIX group base security umask problem.	
Long Description: The requirement is to secure UB (DII COE) with respect to UNIX groups. All users will have their umask set to at least "2" in GCCS 3.0 (although the long-term goal is "027"), and DII COE must function with at least this constraint. In GCCS 2.2, much care was taken to ensure that files shared among account groups with different UNIX groups had appropriately open permissions. In addition, much use was made of the setgid capability to ensure future files written would be of the correct group.	
INRI Number:	RTO00001477
Agency Number:	None.
Short Description: GCCS requires a diagnostic session mode.	
Long Description: CDE should be started in the init 3 and not init 2. This will allow diagnostic maintenance to be performed.	
INRI Number:	RTO00001480
Agency Number:	None.
Short Description: The Installer window does not always list all installed segments.	
Long Description: The Installer window does not always list all installed segments. The Installer window seems to have a limit to the number of segments it can list. This limit should be increased so the Installer window can list all installed segments.	
INRI Number:	RTO00001484
Agency Number:	None.
Short Description: Process Manager security hole.	
Long Description: The Process Manager accepts tcp connections, which is a security hole.	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Software Changes	
INRI Number:	RTO00001496
Agency Number:	D70019
Short Description: [ALT][CTRL][1] allows the user to switch to default behavior.	
Long Description: With JMCIS running, the user can press [ALT][CTRL][1] to switch to default behavior. The operator then can use the right pop-up menu to open a terminal emulator window.	
INRI Number:	RTO00001516
Agency Number:	D70123
Short Description: EM_get_current_printer_name hangs when called.	
Long Description: The Netscape segment failed to install when EM_get_current_printer_name was used to return the default printer. The API hangs and the COEInstaller hangs as a result.	
INRI Number:	RTO00001517
Agency Number:	None.
Short Description: PreInstall does not handle errors encountered during processing.	
Long Description: PreInstall does not handle errors encountered during processing. The error status needs to be checked and handled as follows: PreInstall should quit processing and provide an error message to the user and update the Installation Log.	
INRI Number:	RTO00001518
Agency Number:	None.
Short Description: COEInstaller, TestInstall, and TestRemove are not searching the default paths for required segments.	
Long Description: When a required segment with a specified path is not found, the segment then should be searched for in the standard “COE” paths. COEInstaller, TestInstall, and TestRemove, however, are not searching the default paths for required segments; as a result, segments are failing to install due to “missing” required segments even though the segments are present on the system.	

3.2.2 DII COE Kernel Patch 2 Administratively Closed Software Problems

Reference the following table for a list of administratively closed software problems for the DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1). The software problems are listed in order of INRI Number. Each of these software problems includes a Comments field that explains why the problem was administratively closed.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Administratively Closed Software Problems	
Total Software Changes: [3]	
INRI Number:	RTO00001470
Agency Number:	None.
Short Description:	Disabling of AdmMgr domain functionality.
Long Description:	<p>The Army-Desktop-based architecture of GCCS 2.2 brought out some anomalies with the AdmMgr. Most importantly, the common case of a Tdbm Master residing remotely from and being NFS-mount-dependent on its own global data wrought havoc on the AdmMgr, as designed. Various anomalies occurred, depending on boot-order, who was the Master, etc. (e.g., times when no one was the AdmMgr Master, times when two machines both reported themselves to be AdmMgr Master). In the end, a command-line option was added that would disable much of the AdmMgr's functionality, so that the AdmMgr just reads the tdb_host file instead of determining the Master from the domain information. The DII COE architecture should prevent such problems. If AdmMgr is correctly reporting the Master Tdbm, there are no problems changing the master using SysCon, and there are no potential lurking anomalies with global data and who the master is, then there will be no problem as it stands in DII. /h/data/global follows Tdbm Master due to SysCon functionality. (GCCS cannot tie /h/data/global to the Tdbm Master; an acceptable solution is being investigated to break this tie in GCCS. When that happens, AdmMgr may reveal an incompatibility. This may be a severe problem).</p>
Comments:	The Army Desktop is no longer supported with the DII COE kernel. This problem was retested with the DII COE kernel with CDE and was not repeatable. This problem is no longer an issue and should be closed.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Administratively Closed Software Problems**INRI Number:** RTO00001475**Agency Number:** None.**Short Description:**

Installer "segmentreserve" file instability.

Long Description:

The Installer did not check for a null field before encoding the "segmentreserve" file. Also, for memory initialization of the "version" and "ver_date" fields, it used the "*" character, which happens to be the field delimiter in the "segmentreserve". For example, there is a GCCS 2.2 segment that establishes an NFS mount from /h/COTS/ORACLE across the network to a machine with that local directory, and if that machine was down, SAInstaller would core dump because of the above condition.

Comments:

The segmentreserve file instability problem is not a concern for the COEInstaller. The segmentreserve file was used with the previous SAInstaller, but is no longer used with the COEInstaller.

To address the stale NFS mount issue, the issue was simulated in the following scenario: The COEInstaller was executed on a machine with a local segment directory underneath /h NFS mounted to an installed segment directory on a remote machine. The COEInstaller recognized the remote segment. A stale NFS mount was then created by removing the remote machine from the network. If the remote segment was selected, it would cause the COEInstaller to hang waiting for NFS to respond. It did not cause the COEInstaller to crash. If the remote machine was reconnected to the network, the remote mount was recognized immediately. It appears that the COEInstaller has eliminated this problem. No source code changes were made.

INRI Number: RTO00001478**Agency Number:** None.**Short Description:**

Use of the HOST environment variable in segment PostInstalls or SysAdm scripts fails.

Long Description:

In GCCS 2.2, an increasing number of reports state that the use of the environment variable "HOST" in segment PostInstalls or SysAdm scripts is failing, and that changing the variable to "LCL_HOST" resolves the problem. The problem exists in 2.2 with the GenBest ON/OFF scripts and may affect Clean Datafiles (and possibly others) as well. All kernel segment script files should be checked for the HOST variable.

Comments:

All DII COE kernel scripts were checked for use of the HOST environment variable and no occurrences were found. This issue should be closed since the environment variable is no longer used in kernel scripts.

4. Installation Instructions

This DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) tape is a patch segment and must be installed after the Solaris 2.5.1 Operating System, the DII COE kernel, and the DII COE 3.0.0.3P1 kernel Patch 1 have been installed. Reference the *DII COE Kernel Installation Guide (Solaris 2.5.1)* for instructions on installing the Solaris 2.5.1 Operating System and the DII COE kernel. Reference the *DII COE Version Description Document for the Kernel Patch 1 (Solaris 2.5.1)* for information on installing the DII COE kernel Patch 1.

Install the Patch 2 segment using the COEInstaller. Reference the *DII COE System Administrator's Guide (HP-UX and Solaris)* for instructions on installing segments.

5. Known Problems and Errors

5.1 DII COE Kernel Patch 2 Known Problems and Errors

Reference the following table for a list of known problems and errors for the DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1). The known problems and errors are listed in order of INRI Number.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
Total Software Changes: [24]	
INRI Number:	RTO00001288
Agency Number:	None.
Short Description:	COEInstaller disk highlighting problem.
Long Description:	When the user highlights a disk in the Installer window, the disk cannot be unhighlighted. This does not prevent the user from highlighting other disks, but once the user highlights a disk it is not possible to unhighlight it.
INRI Number:	RTO00001347
Agency Number:	None.
Short Description:	Default profile names from the [AcctGrp] descriptor cannot be manipulated properly by SSOProfiles and SSOEditProfiles.
Long Description:	If a default profile is added by an Account Group using the [AcctGrp] descriptor and the default profile name contains a space, SSOProfiles and SSOEditProfiles cannot properly manipulate and display that profile. (Note that when a profile name from the [AcctGrp] descriptor contains a space, it is written to disk with an underscore (_) rather than a space.)

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001351
Agency Number:	None.
Short Description:	Intermittent login error message.
Long Description:	<p>The following messages sometimes appear in the Console Window when the user logs in with a root, sysadmin, or secman account:</p> <p>INIT: Command is respawning too rapidly. Check for possible errors. id: co " /user/lib/saf/ttymon -g -h -p " 'uname -n 'console login: " -t sun -d /dev/console -l console -m ldterm,ttcompat</p> <p>Initial termio on (/dev/conole) failed set_termio: get_ttymode failed, errno = 22</p>
INRI Number:	RTO00001389
Agency Number:	None.
Short Description:	No window appears to warn the user that a patch selected for installation has already been installed.
Long Description:	<p>No window appears to warn the user that a patch selected for installation has already been installed and to ask if the previously installed patch should be overwritten. This warning window appeared in previous builds. The Installer no longer checks the disk for segments currently installed when one of the following segment types is selected: software, patches, or aggregates. The Installer will flag a repetitive selection for data, COTS, and AcctGrps segment types. The operator can select segments for installation that are already installed without receiving a warning window prompting the operator to select these segments for re-installation. Operators may waste precious time re-installing segments that are already on disk.</p>
INRI Number:	RTO00001390
Agency Number:	None.
Short Description:	Error messages are appearing consistently when installing a patch segment successfully.
Long Description:	<p>Error messages are appearing consistently when installing a patch segment successfully:</p> <p>“Couldn't find segment in any of the known areas. COEAcctGroup : Error parsing [AcctGrp] descriptor file. AcctGroup Segment (seg name) successfully installed.”</p> <p>The message "(E) Couldn't find segment in any of the known areas" is always listed multiple times in the Installation Log. Oftentimes, these error messages appear between the "successful installation" messages for the affected segment and patch segment.</p>

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001416
Agency Number:	None.
Short Description:	Problem exiting the NIS configuration.
Long Description:	The System Administration option Servers option > Set NIS option > Initialize NIS option does not provide the capability to cancel the option. The user ended up killing the window using the Motif CLOSE (ALT-F4) option, which halted the process even though an entry "+" was still made in the /etc/group file. Because of this entry, attempts to perform an "su - 'user'" resulted in a "Bus error" message and an unsuccessful attempt to switch users. Although the Remove NIS option could have been used to undo the changes, a Cancel option should be added to the Set NIS option so the user has an option to exit without making any changes. In addition, this also would make the option more consistent with other system windows.
INRI Number:	RTO00001447
Agency Number:	None.
Short Description:	The tmpster variable needs to be the size of MAX_LINE_LEN and not MAX_NAME_LEN.
Long Description:	The tmpster variable needs to be the size of MAX_LINE_LEN and not MAX_NAME_LEN.
INRI Number:	RTO00001468
Agency Number:	None.
Short Description:	Core process launch after COERunCritical.
Long Description:	GCCS 2.2 has hardcoded the feature of relaunching the core processes at user login time if the processes have earlier been shut down by execution of a process run with COERunCritical. Without this feature, the system will have to be rebooted after any of several sysadmin menu options are executed.
INRI Number:	RTO00001523
Agency Number:	None.
Short Description:	Deinstallation error action message is unclear.
Long Description:	The following error message appears during deinstallation of a segment: "Unable to proceed with DEINSTALL script would you like to abort? Yes/No". This message should be modified because it is unclear in terms of the consequences of choosing to abort or not to abort the action.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001524
Agency Number:	None.
Short Description:	Problem updating profile account groups.
Long Description:	<p>If a profile is created from the sysadmin account group and another segment is installed that affects the account group's .cshrc file, only the default profile's .cshrc for that account group is updated. The only way to update the other profiles in that account group is to delete the profile and add it again.</p>
INRI Number:	RTO00001525
Agency Number:	None.
Short Description:	The Segment Installation Server does not deinstall an aggregate properly.
Long Description:	<p>The Segment Installation Server does not deinstall an aggregate properly. Rather than deinstalling the whole aggregate at once, it only deinstalls the parent. The user then has to deinstall each child separately.</p> <p>For example, Aggregate ONE consists of these segments: TWO, THREE, FOUR, FIVE, and SIX. Deinstall ONE (the parent and aggregate name, which is the only part of the aggregate that originally should and does appear listed in the Installer window). ONE disappears from the list and shows up in the Installation Log as successfully deinstalled. However, FIVE (a child) now appears in the list. Deinstall FIVE. FIVE disappears from the list and shows up in the Installation Log as successfully deinstalled. However, FOUR now appears in the list. (This sequence can be continued until all the "child" segments for the aggregate are deinstalled individually.)</p>
INRI Number:	RTO00001526
Agency Number:	None.
Short Description:	NIS configuration windows do not close appropriately when the upper-left corner box is used to close the windows.
Long Description:	<p>NIS configuration windows do not close appropriately when the upper-left corner box is used to close the windows. Whenever the user clicks on the upper left menu box to close a window, the window should close. Currently, only the first window during NIS configuration actually allows the user to cancel out of the option; this first NIS window (for entering the NIS domain) provides the user the option to exit or continue the NIS setup when the close box is clicked. All other NIS configuration windows have Close options via the upper left corner but do not actually allow the exit. Most NIS windows require the user to continue the NIS setup by presenting an "Invalid Entry" message rather than exiting the window.</p>

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001527
Agency Number:	None.
Short Description: If the left menu box is clicked to close the window asking if the system is the NIS master, NIS assumes the system is a NIS client.	
Long Description: During NIS setup, if the user clicks on the upper-left menu box to close the window that prompts the user to answer Yes or No as to whether this system is the NIS master, then the NIS setup automatically assumes that the system is a NIS client and proceeds to the "Enter the NIS master hostname" window. When the user clicks on the close box, the window should cancel and not assume that the closing action is either a Yes or No response.	
INRI Number:	RTO00001528
Agency Number:	None.
Short Description: When selecting the device remote name in the Installer window, a pop-up menu appears which shows unusual information.	
Long Description: When selecting the device remote name in the Installer window, a pop-up menu appears which shows unusual information (e.g., unexpected and duplicate entries).	
INRI Number:	RTO00001530
Agency Number:	None.
Short Description: COEInstaller patch problem.	
Long Description: Install a patch segment and then reinstall the same patch segment. An attempt to deinstall the segment will fail with the message "Segment P0 may not be deinstalled". Workaround: Before installing the same patch again, deinstall the patch segment using the Deinstall Software button. Then install the segment again. The Installer is creating a directory called "/h/SampleSW/Patches/P1/Patches" and is trying to load the segment again under this directory. The only concern is if a patch segment is not de-installable. The workaround would probably be to reinstall the affected segment and install the patch segment again.	
INRI Number:	RTO00001535
Agency Number:	None.
Short Description: The Security Mgr Remote icon should be removed from SSO_Default on Solaris.	
Long Description: The Security Mgr Remote icon should be removed from SSO_Default on Solaris if it does not apply to Solaris. Currently, the user receives the following error when the icon is launched: "Could not add [NIS master hostname] to list."	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001536
Agency Number:	None.
Short Description: The Add NIS Client option does not allow the user to exit the option without adding a NIS client.	
Long Description: On Solaris, the Add NIS Client option does not allow the user to exit the option without adding a NIS client. (Note that leaving the window entries blank, however, does not appear to cause system problems.) The user should be able to exit the option without adding a NIS client.	
INRI Number:	RTO00001538
Agency Number:	None.
Short Description: Aggregate segments are not displayed in the installed segments panel when installed from the Segment Installation Server.	
Long Description: When an aggregate segment is installed on a machine from the Segment Installation Server, the aggregate does not appear in the Segments Currently Loaded on This Network Server panel. The Installation Log indicates successful installation, and the parent and child segments are listed correctly on disk.	
INRI Number:	RTO00001539
Agency Number:	None.
Short Description: Patch segments cannot be installed from the Segment Installation Server.	
Long Description: Patch segments can be installed from tape but not from the Segment Installation Server. When attempting to install a patch from the network, the following error message appears: "Unable to get [VERSION] descriptor information. Couldn't get the patch number."	
INRI Number:	RTO00001540
Agency Number:	None.
Short Description: The first attempt at installing segments from the Segment Installation Server fails. Subsequent attempts are successful.	
Long Description: When attempting to install segments from the Segment Installation Server, the first attempt is not successful. It is only after re-selecting the same segments on the second attempt that they will install successfully.	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) Known Problems and Errors	
INRI Number:	RTO00001541
Agency Number:	None.
Short Description: A window prompting the user to reboot the machine should appear after NIS client initialization on Solaris.	
Long Description: A window with the message "Please reboot this machine" should appear after the user initializes a NIS client on Solaris. This window appears after client initialization on HP.	
INRI Number:	RTO00001542
Agency Number:	None.
Short Description: NIS client initialization continues despite invalid secure root passwords.	
Long Description: During NIS client initialization, the script continues to attempt initialization even when the correct secure root password is not entered. The nisclient terminal emulator window indicates that the password is invalid and provides the user with two more attempts to correct it. After the third invalid password entry, the program continues with the initialization. The nisclient terminal emulator window does show some error messages, but the window exits too quickly for the user to read them. During reboot, messages indicate that NIS+ servers are unreachable. (After reboot, /etc/defaultdomain shows both the entered NIS domain and the line /etc/defaultdomain.no+nisplus.) Apparently NIS is partially set up after reboot.	
INRI Number:	RTO00001543
Agency Number:	None.
Short Description: Error message that appears when a segment cannot be found on disk should be modified to make it grammatically correct.	
Long Description: The following error message appears when a segment cannot be found on disk: "The required segment not found in disk. Load it and try again." The message should be modified to read: "The required segment is not found on disk. Load it and try again."	
INRI Number:	RTO00001545
Agency Number:	None.
Short Description: Error message that appears when entering a default router should be modified to make it grammatically correct.	
Long Description: The following error message appears when a user attempts to enter a default router after it has already been entered: "The specified entry is already be in the route table". The message should be modified to read: "The specified entry is already in the route table".	

5.2 DII COE Kernel Patch 2 COTS and GOTS Known Problems and Errors

Reference the following table for a list of Commercial Off-the-Shelf (COTS) and Government Off-the-Shelf (GOTS) known problems and errors for the DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1). The COTS and GOTS known problems and errors are listed in order of INRI Number.

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
Total Software Changes: [6]	
INRI Number:	RTO00000045
Agency Number:	None.
Short Description: System Administrator and Security Manager do not work at times on Solaris 2.4 machines.	
Long Description: System Administration and Security Manager functionality does not work at times on Solaris 2.4 machines. On numerous occasions, the user logs in to System Administration to find no system bar options. In addition, the user cannot access any icons located in the SA_Default folder in the DII_APPS folder under application manager on the Desktop Tool menu bar. The same problem applies to the Security Manager login as well (except that no system menu bar appears since Security Manager does not have one). When trying to access any icons in the SSO_Default folder in the DII_APPS under the Application Manager in the desktop tool menu bar, the same problem occurs--nothing happens. The desktop "Busy Light" flashes indicating something is working but no displays appear. Therefore, as a workaround, the system must be rebooted to regain operability to these areas. This has happened on numerous random occasions during testing and has occurred on multiple Solaris 2.4 machines. The problem cannot be pinpointed to any pattern of events. Rebooting the machine is an unacceptable and time consuming workaround.	
INRI Number:	RTO00000047
Agency Number:	None.
Short Description: The Security Manager dies when adding or modifying Accounts and Profiles.	
Long Description: The Security Manager exits with a 0 status when any of the arrow pop-up buttons are selected. This occurred when TED patch 13 was installed on the system. The patch has been removed temporarily, which results in six additional patches being removed due to their dependency on patch 13.	
INRI Number:	RTO00000048
Agency Number:	None.
Short Description: Duplicate group number error message is confusing.	
Long Description: When creating a global group with a duplicate group number, the error message that appears is confusing. The detailed information indicates: "Sm_Utility.Groups_Modify".	

DII COE Version 3.0.0.3P2 Kernel Patch 2 (Solaris 2.5.1) COTS and GOTS Known Problems and Errors	
INRI Number:	RTO00000049
Agency Number:	None.
Short Description: With NIS+ running, Security Manager launching does not always prompt for the secman password.	
Long Description: When running Security Manager on NIS+ (Solaris), the user is not always prompted for the secman password. Note that the user can still create and delete global accounts and profiles even though the password was not required. For example, log in as an SSO-based account other than secman.	
INRI Number:	RTO00000050
Agency Number:	None.
Short Description: Icons do not consistently launch from the secman or sysadmin login.	
Long Description: Logins to secman sometimes will not launch secman icons. Also, sysadmin icons sometimes will not launch even though menu items work. (This problem occurs on both the NIS master and client.) After logging out, subsequent logins usually will work; however, the user may need to log in and out several times to launch the icons. This same launching problem sometimes happens during profile switching. Again, the user may need to switch profiles several times or log out and back in before the icons will launch. Also see related STR RTO00000045.	
INRI Number:	RTO00000051
Agency Number:	None.
Short Description: Unassigned global profiles appear for secman and sysadmin even when the NIS client is disabled.	
Long Description: After disabling the NIS client, rebooting it, and logging back into the client as secman, the Profile Selector window (which was "on") appeared with SSO_Default selected and with all global profiles available for the secman account; however, no global profiles ever were assigned to secman. After continuing the login with SSO_Default only, the Profile Selector window (called from the Profile icon on the CDE bar) only shows SSO_Default as available. Subsequent logins work fine. (The same problem also occurred once after reboot upon sysadmin login.)	

6. Release Notes

1. Once multiple profiles has been enabled (the `Multiple` toggle has been selected as the `Profile Selection Criteria` in the `Profile Selector Configuration` window), the system administrator should not change back to a single-profile configuration. The software does not support this feature.
2. DCE has not been removed from the DII COE kernel and the menus for Solaris 2.5.1.

3. The following error message may appear for the TEDPTCH25-TEDPTCH28 patches when installing TED patches: "Dependency check failed". TEDPTCH23 and TEDPTCH24 were missing the FM directory. The other TED patches appear to have installed correctly.

7. DII COE Kernel Patch 2 Solaris 2.5.1 Patch List

7.1 Solaris 2.5.1 Patches for CDE

The following additional patches are added to CDE when the DII COE Kernel Patch 2 (Solaris 2.5.1) is installed.

Patch Name: 14 - dtsearchpath

Synopsis: 2849 - Setting EXEC_HOST to %DatabaseHost% and the action is still executed locally instead at the machine where the action was defined

Patch Name: 19 - dtterm, libDtTerm.so.1

Synopsis: 6508 - Dtterm saves session files with root ownership

Patch Name: 34 - dtprintinfo

Synopsis: 5123 - Dtprintinfo does not show print queue of remote BSD printers
5236 - Dtprintinfo's popup menu options for Find and Exit do not work correctly

Patch Name: 36 - libDtLck.so.1

Synopsis: 6403 - Strike Out Authentication

Patch Name: 37 - dtlogin, dtlogin.1

Synopsis: 6403 - Strike Out Authentication
6431 - BSM logging audit ID only shows root

Patch Name: 38 - libDtSvc.so.1

Synopsis: 6403 - Strike Out Authentication

Patch Name: 39 - dtsession, dtsession.1

Synopsis: 6403 - Strike Out Authentication

Patch Name: 40 - dtstyle, dtstyle.1

Synopsis: 6403 - Strike Out Authentication
3017 - Need a way to add and delete workspace quickly in Style Manager
3027 - Need new feature for Style Manager's Window component to use Icon Label Only

Patch Name: 41- dtmail

Synopsis: 6271 - Enable the user to specify the temp directory for mail attachments

7.2 Solaris 2.5.1 Patches for CDE Not Included in This Delivery

The following patches are not incorporated in the Solaris 2.5.1 patch because they adversely affect the Accounts and Profiles subsystem.

Patch Name: 13 - libXm.so.3

Synopsis: 2017 - Drag and Drop actions to desktop does not work
4123 - Pixmaps are not reread when the file has changed
4536 - Mailer exits irregularly

Patch Name: 25 - libDtSvc.so.1

Synopsis: 1789 - Spell Checker does not work in Mailer nor Text Editor
2397 - Small memory leak was found with dtwm
3099 - Remove white background from icons
4430 - File Manager does not allow secondary group access to directories

Patch Name: 26 - libDtWidget.so.1

Synopsis: 1789 - Spell Checker does not work in Mailer nor Text Editor
3007 - Enhancement for displaying date format "%I:%M%n%a" wasn't working
4387 - Text Editor and Mailer compose window duplicates the last paragraph
when you attempt to format paragraph

Patch Name: 27 - dtpad

Synopsis: 1789 - Spell Checker does not work in Mailer nor Text Editor

Patch Name: 28 - dtmail, dtmailpr, libDtMail.so.1

Synopsis:

- 1789 - Spell Checker does not work in dtmail nor dtpad
- 1943 - Mailer exits after selecting a couple of mail messages for editing
- 1969 - Save As Text from large mail file truncates the resulting file
- 2351 - Problems printing mail when the "To" line is too long
- 2352 - Mailer appending extraneous headers
- 2358 - Mailer message indicates it has an attachment when it really does not
- 2359 - Mailer is not printing all fields
- 2429 - Complex "To" or "cc" lines causes major problems
- 2472 - Mail file is being corrupted and closing, deleting, and updating is extremely slow or hangs
- 2579 - Can not receive mail in mailbox created by dtmail
- 3059 - Enhancement to the "Format Menu Custom Fields" area of the Compose Window mail options
- 3065 - Destroy Deleted Mail Messages options are confusing
- 3081 - Mailer hangs while dragging multiple attachments
- 3270 - Dragging a folder from file manager to mailer on the front panel brings up a compose window with no attachments
- 3291 - Unable to print text attachment with "Print Page Numbers" enabled
- 3352 - Autosave and destroying messages at the same time quits the mailer
- 3589 - Mailer has problem with attachment containing tar file
- 3651 - Move doesn't work correctly if the "Start Looking In" field is empty
- 3653 - Mailer receives ghost attachments
- 3662 - File -> Include in Compose window always appends text to the end of message
- 3690 - Mailer crashes when receiving a mail message with an attachment in the format "X-Sun_Encoding-Info: default-compress, uuencode"
- 3905 - Mailer is missing some MIME headers to display attachment filenames
- 4033 - Compose window's iconified title is incorrect
- 4037 - If the font size is increased, the mailer window doesn't resize properly
- 4051 - If "Reply-To" is not the sender, the sender becomes erroneous
- 4068 - The DEFAULT_BACKEND='Sun Mail Tool' resource causes mailer to die on long messages
- 4082 - Deleted and "read" messages are restored to "unread" status
- 4085 - Eudora fixes
- 4116 - Mailer not handling attachment names longer than 8 characters
- 4118 - Message with two or more attachments, an additional attachment appears
- 4211 - Mailer dies without displaying an error message
- 4249 - Mail messages are concatenated in the /var/mail/\$USER folder
- 4253 - Message menu items not available after new message has arrived in empty mailbox
- 4327 - Saving an existing message from an open message view causes mailer to crash
- 4385 - Modifying file name field when adding attachments can crash mailer

- 4387 - Text Editor and Mailer's Compose window duplicate the last paragraph when you attempt to format paragraph
- 4437 - Mailer is changing the header info, and not handling some standards properly
- 4439 - A single "." character on a line by itself will cause that line and all subsequent lines to be dropped
- 4451 - Multiple attachments are included in forward message
- 4535 - Customizing header fields causes the "TO:" header to disappear from the compose window
- 4536 - Mailer is irregularly exited
- 4537 - When Saving a message with attachment deleted, dtmail closes abnormally
- 4539 - Forward a message with empty subject line core dumps
- 4542 - Cannot turn strict MIME character encoding off
- 4565 - Drag and Drop 12 or more attachments to text editor on front panel, not all windows come up
- 4566 - Tab characters force quoted-printable encoding even with strictmime off
- 4596 - Sendmail is not displaying error dialogs

Patch Name: 33 - libDtMail.so.1

Synopsis: 5984 - FrameMaker file attachments are corrupted
5985 - Tar file attachments are corrupted
6056 - Problem with attachment names from non-dtmail systems

Patch Name: 35 - libXm.so.3

Synopsis: 6008 - Too many icons in /usr/dt/appconfig/icons/C causes dtgreet to hang

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